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COMMUNICABLE DISEASE CENTER

# Morbidity and Mortality

Vol. 14, No. 1

WEEKLY REPORT

Week Ending January 9, 1965

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

## INFLUENZA

Only limited, sporadic outbreaks of influenza have occurred in the United States thus far this season (MMWR Vol. 13, No. 49). None have been recorded in recent weeks. The four areas where influenza activity has been documented include: (1) **Puerto Rico** – a low level but widespread outbreak occurring from late summer throughout the fall from which $A_2$ viruses were isolated; (2) **Oregon** – focal outbreaks in the fall identified serologically as $A_2$ influenza; (3) **Hawaii** – relatively widespread outbreaks primarily on Oahu Island beginning in late September from which influenza B viruses were isolated; and, (4) **Maine** – limited numbers of cases among students at the University of Maine in mid-fall confirmed serologically as influenza B.

## EPIDEMIOLOGIC NOTES

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Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

| Disease | 1st Week Ended | | | Cumulative, First Week | | |
|---|---|---|---|---|---|---|
| | January 9, 1965 | January 4, 1964 | Median 1960 - 1964 | 1965 | 1964 | Median 1960 - 1964 |
| Aseptic meningitis | 38 | 19 | 19 | 38 | 19 | 19 |
| Brucellosis | 8 | 3 | 4 | 8 | 3 | 4 |
| Diphtheria | 3 | 8 | 15 | 3 | 8 | 15 |
| Encephalitis, primary infectious | 31 | 18 | --- | 31 | 18 | --- |
| Encephalitis, post-infectious | 5 | 8 | --- | 5 | 8 | --- |
| Hepatitis, infectious including serum hepatitis | 685 | 625 | 691 | 685 | 625 | 691 |
| Measles | 5,203 | 3,191 | 5,895 | 5,203 | 3,191 | 5,895 |
| Meningococcal infections | 50 | 37 | 37 | 50 | 37 | 37 |
| Poliomyelitis, Total | - | - | 7 | - | - | 7 |
| Paralytic | - | - | 3 | - | - | 3 |
| Nonparalytic | - | - | --- | - | - | --- |
| Unspecified | - | - | --- | - | - | --- |
| Streptococcal Sore Throat and Scarlet fever | 8,667 | 6,810 | 6,810 | 8,667 | 6,810 | 6,810 |
| Tetanus | 3 | 3 | --- | 3 | 3 | --- |
| Tularemia | 4 | 9 | --- | 4 | 9 | --- |
| Typhoid fever | 1 | 2 | 5 | 1 | 2 | 5 |
| Rabies in Animals | 92 | 49 | 49 | 92 | 49 | 49 |

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | | Cum. |
|---|---|---|---|
| Anthrax: | - | Rabies in Man: | - |
| Botulism: | - | Smallpox: | - |
| Leptospirosis: | - | Trichinosis: Maine-1 | 1 |
| Malaria: | - | Typhus- | |
| Plague: | - | Murine: | - |
| Psittacosis: Ariz.-1 | 1 | Rky Mt. Spotted: | - |

## TUBERCULOSIS SURVEILLANCE SUMMARY

During the last 10 years there has been a steady decline in the reported number of new "active cases" of tuberculosis and tuberculosis deaths.

Statistics for the nation as a whole show that the number of new active cases reported annually declined from 83,304 in 1953 to 54,042 in 1963, a decrease of 35 percent (see fig. 1). The new active case rate, which was 53.0 per 100,000 population in 1953, declined 46 percent to a rate of 28.7 in 1963. Tuberculosis death rates have fallen somewhat more rapidly from 12.4 per 100,000 population in 1953 to 5.1 in 1963.

**TREND IN NEW ACTIVE TUBERCULOSIS CASES AND DEATHS, UNITED STATES, 1953-1963**

| Year | New Active Cases | | Tuberculosis deaths | |
|---|---|---|---|---|
| | Number | Rate per 100,000 | Number | Rate per 100,000 |
| 1953 | 84,304 | 53.0 | 19,707 | 12.4 |
| 1954 | 79,775 | 49.3 | 16,527 | 10.2 |
| 1955 | 77,368 | 46.9 | 15,016 | 9.1 |
| 1956 | 69,895 | 41.6 | 14,137 | 8.4 |
| 1957 | 67,149 | 39.2 | 13,390 | 7.8 |
| 1958 | 63,534 | 36.5 | 12,417 | 7.1 |
| 1959 | 57,535 | 32.5 | 11,474 | 6.5 |
| 1960 | 55,494 | 30.8 | 10,866 | 6.0 |
| 1961 | 53,726 | 29.4 | 9,938 | 5.4 |
| 1962 | 53,315 | 28.7 | 9,506 | 5.1 |
| 1963 | 54,042 | 28.7 | 9,311 | 5.1 |

Except for the group 15 years of age and under, there has been a continuing decline in new cases in recent years. In the past 2 years, however, there has been an increase in cases in the under-age-15 group. In 1960, 4,388 new cases were reported in this age group; in 1963 the number had risen to 6,485. The increased number of new cases in children under 15 years of age was observed for both white and nonwhite males and females (see fig. 2). This increase undoubtedly reflects in part the less restrictive definition of an "active case," a change which was introduced in 1961 and increasingly widely applied. Where previously the only primary cases "to be reported" were those with demonstrated tubercle bacilli, the term now includes primary tuberculosis if there is either laboratory or X-ray evidence of active disease, but excludes tuberculin converters and infant reactors without laboratory or X-ray evidence.

Tuberculosis incidence rates among nonwhite persons of every age are much higher than for white persons. The rates among males are substantially higher than among females. In 1963, the new case rate for nonwhite males was over 3 times as high as for white males, and the rate for nonwhite females was 4 times as high as for white females. Although all race-sex groups have shown a marked decline in both new cases and rates since 1953, the rates for new active cases have declined faster in the white than in the nonwhite population. The greatest change occurred among white females. The rise in nonwhite female rates in 1961 and 1962 was due almost entirely to an increase in new cases reported among children (see fig. 3).

**FIGURE 1**

**REPORTED TUBERCULOSIS–NEW ACTIVE CASES UNITED STATES, 1953–1963**

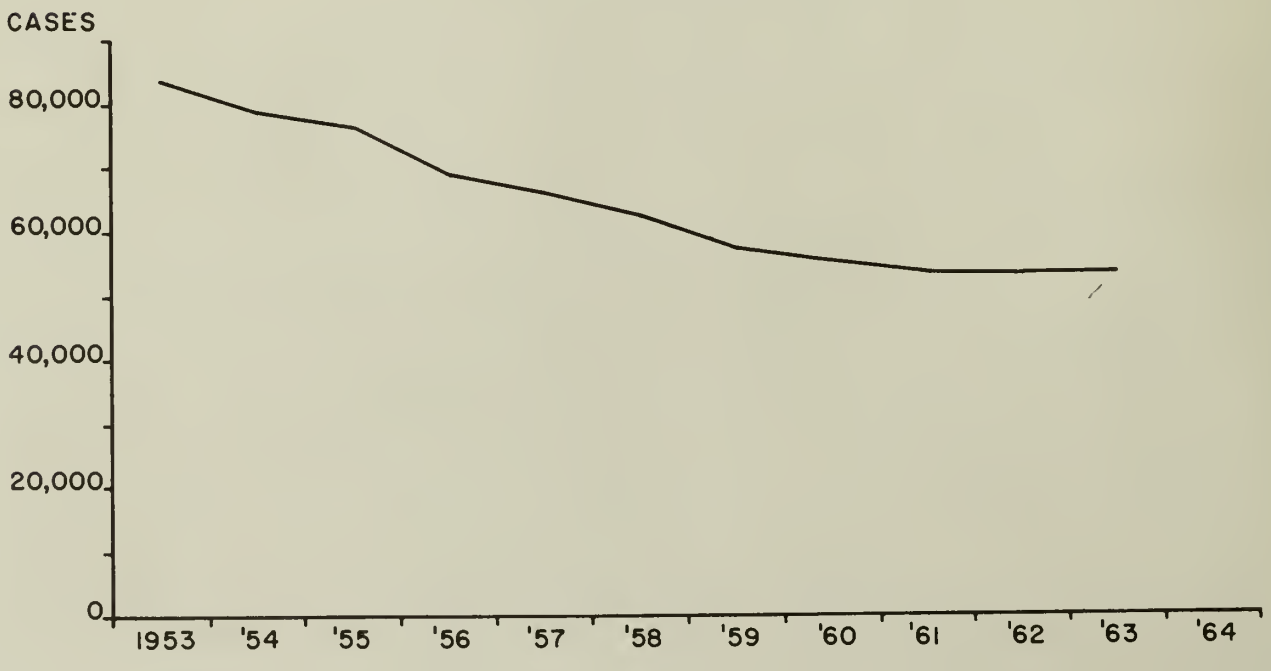
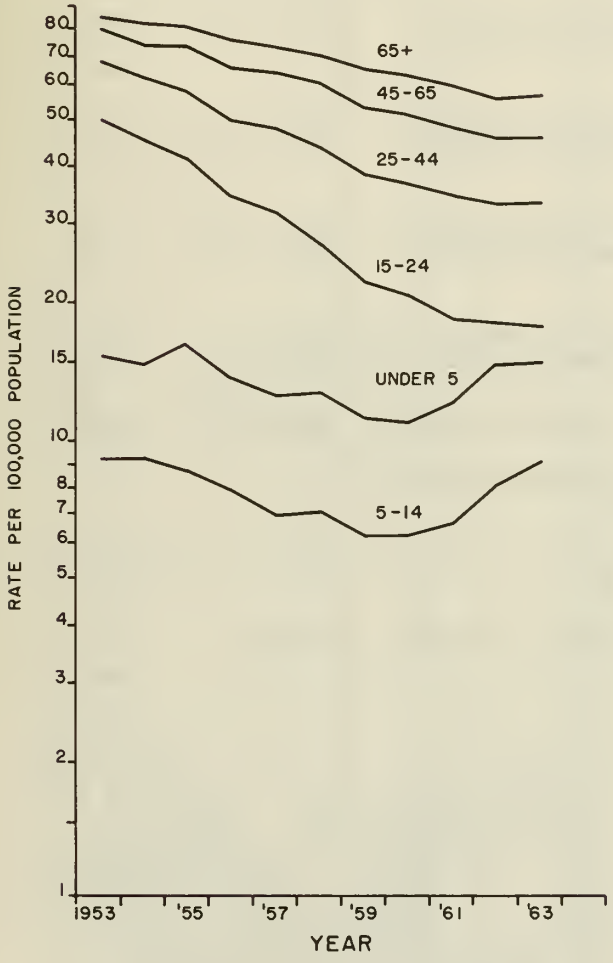


FIGURE 2

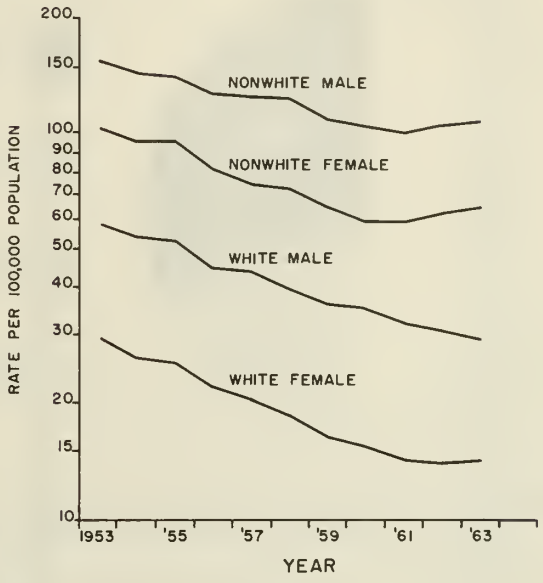
NEW ACTIVE TUBERCULOSIS CASE RATES BY AGE
UNITED STATES, 1953 - 1963




*(Reported by the Tuberculosis Branch, CDC, and abstracted from Reported Tuberculosis Data, 1964 Edition, Public Health Service Publication No. 638. Additional 1963 data is included.)*

FIGURE 3

NEW ACTIVE TUBERCULOSIS CASE RATES BY RACE AND SEX
UNITED STATES, 1953 - 1963




## Geogrophic Distribution of Tuberculosis

The geographic distribution of tuberculosis varies greatly within the United States. In 1963, new case rates ranged from a high of 113.4 per 100,000 population in Alaska to a low of 6.8 in Iowa; the number of reported new active cases in the States varied from 6,756 in New York to 30 in Wyoming. In general, most tuberculosis is found in areas where there are large concentrations of population and where low economic circumstances prevail. In addition, since the new case rates are much higher in nonwhites, much of the tuberculosis can be further localized to certain urban communities where large numbers of nonwhites reside (see fig. 4 and 5).

## Mortolity

Tuberculosis deaths and death rates follow a pattern similar to cases and case rates in age-sex and geographic distribution. In 1962, 7.5 percent of all tuberculosis deaths were ascribed to nonpulmonary forms of the disease. The 1963 death rate of 5.1 per 100,000 population is identical with that of 1962.

**NEW ACTIVE TUBERCULOSIS CASE RATES*, BY AGE, RACE, AND SEX**
**United States, 1963**

| Age Groups | Total | WHITE | | | NONWHITE | | |
|---|---|---|---|---|---|---|---|
| | | Total | Male | Female | Total | Male | Female |
| All Ages | 28.7 | 21.7 | 29.4 | 14.1 | 81.5 | 103.4 | 60.8 |
| 0-4 | 14.9 | 9.4 | 9.4 | 9.4 | 45.1 | 44.8 | 45.4 |
| 5-14 | 9.0 | 5.2 | 5.1 | 5.4 | 31.8 | 31.4 | 32.1 |
| 15-24 | 17.1 | 11.1 | 11.4 | 10.8 | 59.9 | 56.6 | 63.1 |
| 25-44 | 32.4 | 21.9 | 27.0 | 16.9 | 114.6 | 146.2 | 87.0 |
| 45-64 | 46.2 | 36.7 | 58.4 | 16.2 | 137.0 | 212.3 | 66.6 |
| 65 & Over | 58.2 | 51.4 | 81.8 | 27.4 | 140.4 | 213.6 | 77.3 |

* Rate per 100,000 population.

FIGURE 4

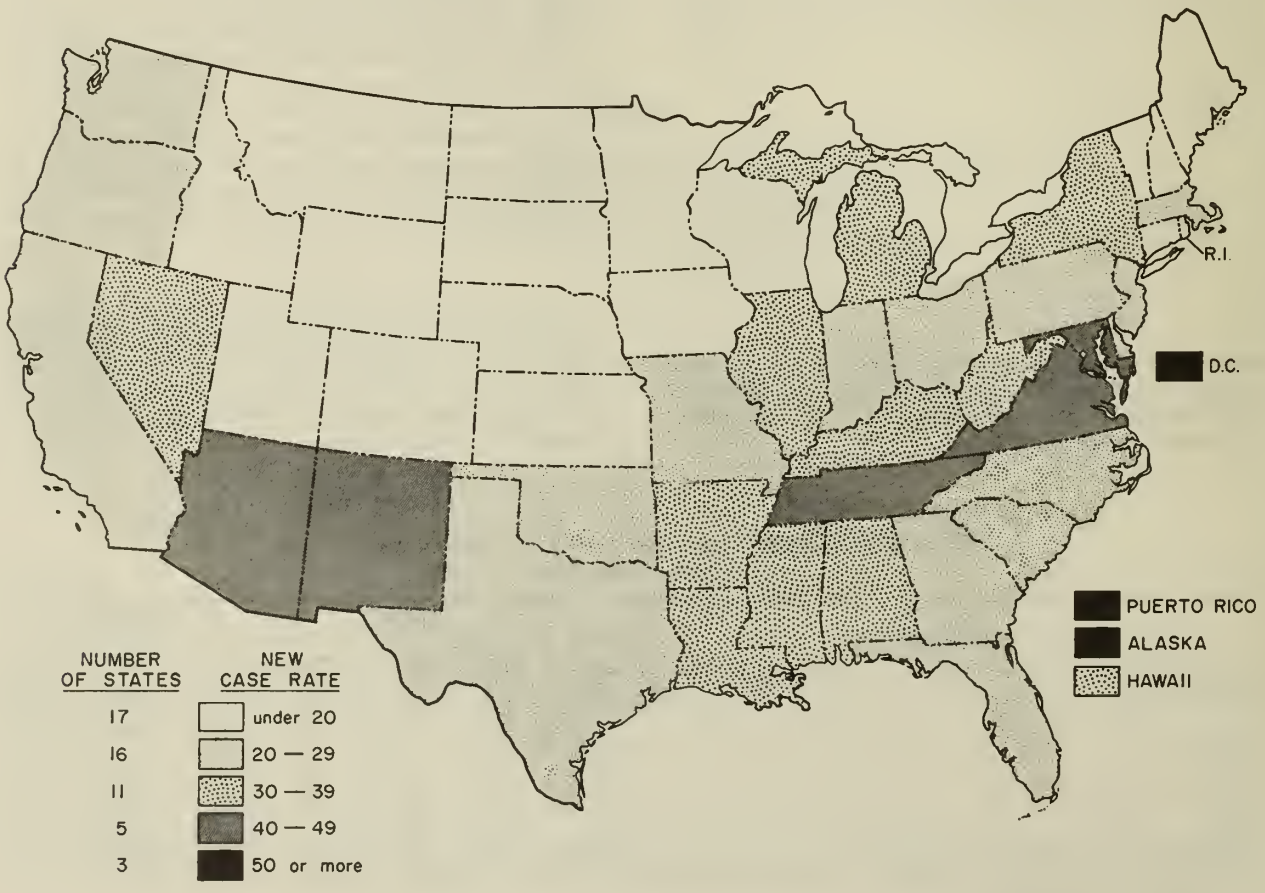
## TUBERCULOSIS BY SIZE OF COMMUNITY, 1962

| SIZE OF COMMUNITY | NEW ACTIVE CASES | CASE RATE | PERCENT OF CASES |
|---|---|---|---|
| CITIES WITH 500,000 OR MORE POPULATION | 16,326 | 56.0 | 30.6 |
| CITIES WITH 250,000 TO 500,000 POPULATION | 4,430 | 36.9 | 8.3 |
| CITIES WITH 100,000 TO 250,000 POPULATION | 4,040 | 30.6 | 7.6 |
| ALL OTHER AREAS EXCLUSIVE OF LARGE CITIES | 28,519 | 21.7 | 53.5 |
| UNITED STATES | 53,315 | 28.7 | 100.0 |

NOTE: Large cities have high case rates but more than half of the new cases are in areas outside of these metropolitan centers.

FIGURE 5

## TUBERCULOSIS CASE RATES BY STATE, AVERAGE 1960–1963



## NEW ACTIVE TUBERCULOSIS CASES AND CASE RATES BY STATE, 1962 AND 1963

| STATE | New Active Cases | | Case Rate Per 100,000 Papulatian | | Rank According ta Rate | | Papulatian July 1, 1963 |
|---|---|---|---|---|---|---|---|
| | 1962 | 1963 | 1962 | 1963 | 1962 | 1963 | |
| UNITED STATES .... | 53,315 | 54,042 | 28.7 | 28.7 | .. | .. | 188,616,000 |
| CONTINENTAL U.S... | 52,698 | 53,526 | 28.5 | 28.5 | .. | .. | 187,686,000 |
| Alabama ..... | 1,164 | 1,326 | 35.1 | 39.3 | 12 | 7 | 3,376,000 |
| Alaska ..... | 323 | 279 | 133.4 | 113.4 | 1 | 1 | 246,000 |
| Arizana ..... | 703 | 631 | 47.3 | 41.6 | 3 | 3 | 1,516,000 |
| Arkansas ..... | 660 | 672 | 35.8 | 35.3 | 11 | 11 | 1,902,000 |
| Califarnia ..... | 5,032 | 5,034(a) | 29.5 | 28.7 | 18 | 22 | 17,539,000 |
| Calarada ..... | 294 | 289 | 15.5 | 15.1 | 39 | 38 | 1,918,000 |
| Cannecticut ..... | 337 | 301 | 12.8 | 11.1 | 42 | 45 | 2,715,000 |
| Delaware ..... | 179 | 143 | 38.3 | 29.8 | 9 | 19 | 480,000 |
| District af Calumbia .. | 599 | 474 | 75.9 | 59.4 | .. | .. | 798,000 |
| Flarida ..... | 1,439 | 1,563 | 26.4 | 28.3 | 25 | 25 | 5,531,000 |
| Geargia ..... | 1,189 | 1,261 | 29.1 | 29.9 | 20 | 18 | 4,217,000 |
| Hawaii ..... | 294 | 237 | 42.4 | 34.6 | 6 | 13 | 684,000 |
| Idaha ..... | 82 | 71 | 11.7 | 10.3 | 45 | 46 | 687,000 |
| Illinais ..... | 3,895 | 3,739 | 38.6 | 36.0 | 8 | 10 | 10,382,000 |
| Indiana ..... | 1,231 | 1,351 | 26.4 | 28.3 | 26 | 24 | 4,779,000 |
| Iawa ..... | 186 | 186 | 6.7 | 6.8 | 49 | 50 | 2,755,000 |
| Kansas ..... | 273 | 283 | 12.3 | 12.8 | 43 | 43 | 2,217,000 |
| Kentucky ..... | 1,316 | 1,190 | 42.7 | 38.1 | 5 | 9 | 3,126,000 |
| Lauisiana ..... | 1,060 | 1,068 | 31.4 | 31.3 | 17 | 14 | 3,415,000 |
| Maine ..... | 164 | 156 | 16.8 | 15.8 | 36 | 37 | 986,000 |
| Maryland ..... | 1,350 | 1,361 | 41.8 | 40.6 | 7 | 5 | 3,352,000 |
| Massachusetts ..... | 1,182 | 1,097 | 22.8 | 20.7 | 31 | 33 | 5,296,000 |
| Michigan ..... | 2,288 | 2,433 | 28.4 | 30.3 | 24 | 16 | 8,031,000 |
| Minnesata ..... | 501 | 456 | 14.4 | 13.1 | 41 | 42 | 3,492,000 |
| Mississippi ..... | 654 | 687 | 28.9 | 30.1 | 22 | 17 | 2,286,000 |
| Missauri ..... | 1,252 | 1,245 | 29.0 | 28.4 | 21 | 23 | 4,384,000 |
| Mantana ..... | 116 | 127 | 16.6 | 18.1 | 38 | 34 | 701,000 |
| Nebraska ..... | 168 | 146 | 11.6 | 9.9 | 46 | 47 | 1,468,000 |
| Nevada ..... | 176 | 135 | 50.3 | 34.7 | 2 | 12 | 389,000 |
| New Hampshire..... | 70 | 73 | 11.3 | 11.3 | 47 | 44 | 644,000 |
| New Jersey ..... | 1,533 | 1,634 | 24.1 | 24.9 | 29 | 28 | 6,554,000 |
| New Mexica ..... | 330 | 395 | 33.1 | 40.1 | 13 | 6 | 986,000 |
| New Yark ..... | 6,442 | 6,756 | 36.8 | 38.2 | 10 | 8 | 17,696,000 |
| Narth Caralina ..... | 1,344 | 1,386 | 28.6 | 29.0 | 23 | 21 | 4,787,000 |
| Narth Dakata ..... | 77 | 88 | 12.2 | 13.6 | 44 | 39 | 645,000 |
| Ohia ..... | 2,447 | 2,439 | 24.4 | 24.4 | 27 | 29 | 10,000,000 |
| Oklahama ..... | 513 | 584 | 21.0 | 23.9 | 33 | 30 | 2,441,000 |
| Oregan ..... | 417 | 395 | 23.1 | 21.3 | 30 | 32 | 1,852,000 |
| Pennsylvania ..... | 3,340 | 3,113 | 29.3 | 27.2 | 19 | 27 | 11,425,000 |
| Rhade Island ..... | 173 | 154 | 19.7 | 17.3 | 35 | 35 | 892,000 |
| Sauth Caralina ..... | 799 | 740 | 32.6 | 29.6 | 16 | 20 | 2,504,000 |
| South Dakata ..... | 120 | 96 | 16.6 | 13.6 | 37 | 40 | 708,000 |
| Tennessee ..... | 1,585 | 1,541 | 43.4 | 41.1 | 4 | 4 | 3,747,000 |
| Texas (b) ..... | 2,444 | 2,858 | 24.1 | 27.9 | 28 | 26 | 10,228,000 |
| Utah ..... | 47 | 80 | 4.9 | 8.2 | 50 | 49 | 971,000 |
| Vermant ..... | 58 | 54 | 15.0 | 13.3 | 40 | 41 | 405,000 |
| Virginia (c) ..... | 1,391 | 1,806 | 32.7 | 42.2 | 15 | 2 | 4,282,000 |
| Washingtan ..... | 655 | 640 | 21.8 | 21.6 | 32 | 31 | 2,961,000 |
| West Virginia ..... | 593 | 563 | 33.0 | 31.1 | 14 | 15 | 1,813,000 |
| Wiscansin ..... | 801 | 676 | 19.9 | 16.6 | 34 | 36 | 4,066,000 |
| Wyaming ..... | 29 | 30 | 8.7 | 8.8 | 48 | 48 | 339,000 |
| Puerta Rica (d)..... | 1,816 | 1,852 | 73.8 | 73.4 | .. | .. | 2,520,000 |

(a) Originol PHS Repart 1393 carrected August 1964.
(b) Increase in 1963 due ta change in reporting pracedures; naw included ore primory cases (424), and cases (256) fram 86 counties without organized health units.
(c) Increose in 1963 due primarily ta mare camplete reporting af primory cases (437).
(d) Not included in totols.

The District of Columbio is clossed as a city, and is nat ranked with the stotes.

## TUBERCULOSIS DEATHS AND DEATH RATES BY STATE, 1962 AND 1963

| STATE | Tuberculosis Deaths | | Death Rate Per 100,000 Population | | Rank According to Rate | | Population July 1, 1963 |
|---|---|---|---|---|---|---|---|
| | 1962 | 1963 | 1962 | 1963 | 1962 | 1963 | |
| UNITED STATES .. | 9,506 | 9,311 | 5.1 | 4.9 | .. | .. | 188,616,000 |
| CONTINENTAL U.S. | 9,464 | 9,271 | 5.1 | 4.9 | .. | .. | 187,686,000 |
| Alabama ..... | 281 | 282 | 8.4 | 8.4 | 4 | 5 | 3,376,000 |
| Alaska ..... | 19 | 21 | 7.9 | 8.5 | 7 | 3 | 246,000 |
| Arizona ..... | 146 | 152 | 9.8 | 10.0 | 1 | 1 | 1,516,000 |
| Arkansas ..... | 177 | 141 | 9.6 | 7.4 | 3 | 7 | 1,902,000 |
| California..... | 646 | 599 | 3.8 | 3.4 | 33 | 35 | 17,539,000 |
| Colorado ..... | 70 | 63 | 3.7 | 3.3 | 34 | 36 | 1,918,000 |
| Connecticut ..... | 103 | 86 | 3.9 | 3.2 | 32 | 38 | 2,715,000 |
| Delaware ..... | 23 | 28 | 4.9 | 5.8 | 22 | 15 | 480,000 |
| District of Columbia . | 93 | 98 | 11.8 | 12.3 | .. | .. | 798,000 |
| Florida ..... | 224 | 249 | 4.1 | 4.5 | 30 | 26 | 5,531,000 |
| Georgia ..... | 178 | 152 | 4.4 | 3.6 | 28 | 34 | 4,217,000 |
| Hawaii ..... | 23 | 19 | 3.3 | 2.8 | 37 | 40 | 684,000 |
| Idaho ..... | 13 | 18 | 1.9 | 2.6 | 46 | 43 | 687,000 |
| Illinois ..... | 535 | 528 | 5.3 | 5.1 | 19 | 19 | 10,382,000 |
| Indiana ..... | 229 | 223 | 4.9 | 4.7 | 23 | 25 | 4,779,000 |
| Iowa ..... | 62 | 51 | 2.2 | 1.9 | 45 | 47 | 2,755,000 |
| Kansas ..... | 53 | 41 | 2.4 | 1.8 | 44 | 48 | 2,217,000 |
| Kentucky ..... | 302 | 269 | 9.8 | 8.6 | 2 | 2 | 3,126,000 |
| Louisiana ..... | 243 | 222 | 7.2 | 6.5 | 8 | 11 | 3,415,000 |
| Maine ..... | 43 | 36 | 4.4 | 3.7 | 27 | 33 | 986,000 |
| Maryland ..... | 232 | 245 | 7.2 | 7.3 | 9 | 8 | 3,352,000 |
| Massachusetts..... | 263 | 251 | 5.1 | 4.7 | 20 | 23 | 5,296,000 |
| Michigan ..... | 334 | 312 | 4.2 | 3.9 | 29 | 28 | 8,031,000 |
| Minnesota ..... | 89 | 94 | 2.6 | 2.7 | 41 | 42 | 3,492,000 |
| Mississippi ..... | 125 | 113 | 5.5 | 4.9 | 17 | 21 | 2,286,000 |
| Missouri ..... | 272 | 266 | 6.3 | 6.1 | 12 | 13 | 4,384,000 |
| Montana ..... | 32 | 27 | 4.6 | 3.9 | 26 | 30 | 701,000 |
| Nebraska ..... | 26 | 15 | 1.8 | 1.0 | 47 | 50 | 1,468,000 |
| Nevada ..... | 20 | 20 | 5.7 | 5.1 | 15 | 17 | 389,000 |
| New Hampshire .... | 17 | 14 | 2.7 | 2.2 | 40 | 45 | 644,000 |
| New Jersey..... | 347 | 363 | 5.4 | 5.5 | 18 | 16 | 6,554,000 |
| New Mexico ..... | 70 | 70 | 7.0 | 7.1 | 10 | 9 | 986,000 |
| New York ..... | 1,094 | 1,049 | 6.3 | 5.9 | 13 | 14 | 17,696,000 |
| North Carolina..... | 173 | 185 | 3.7 | 3.9 | 35 | 29 | 4,787,000 |
| North Dakota..... | 10 | 12 | 1.6 | 1.9 | 49 | 46 | 645,000 |
| Ohio ..... | 409 | 441 | 4.1 | 4.4 | 31 | 27 | 10,000,000 |
| Oklahoma ..... | 153 | 152 | 6.3 | 6.2 | 14 | 12 | 2,441,000 |
| Oregon..... | 44 | 59 | 2.4 | 3.2 | 43 | 37 | 1,852,000 |
| Pennsylvania ..... | 784 | 744 | 6.9 | 6.5 | 11 | 10 | 11,425,000 |
| Rhode Island..... | 30 | 34 | 3.4 | 3.8 | 36 | 32 | 892,000 |
| South Carolina .... | 113 | 122 | 4.6 | 4.9 | 25 | 22 | 2,504,000 |
| South Dakota ..... | 21 | 27 | 2.9 | 3.8 | 38 | 31 | 708,000 |
| Tennessee ..... | 305 | 297 | 8.4 | 7.9 | 5 | 6 | 3,747,000 |
| Texas ..... | 506 | 506 | 5.0 | 4.9 | 21 | 20 | 10,228,000 |
| Utah ..... | 16 | 25 | 1.7 | 2.6 | 48 | 44 | 971,000 |
| Vermont ..... | 22 | 19 | 5.7 | 4.7 | 16 | 24 | 405,000 |
| Virginia ..... | 197 | 219 | 4.6 | 5.1 | 24 | 18 | 4,282,000 |
| Washington ..... | 87 | 84 | 2.9 | 2.8 | 39 | 39 | 2,961,000 |
| West Virginia ..... | 145 | 153 | 8.1 | 8.4 | 6 | 4 | 1,813,000 |
| Wisconsin ..... | 103 | 111 | 2.6 | 2.7 | 42 | 41 | 4,066,000 |
| Wyoming ..... | 4 | 4 | 1.2 | 1.2 | 50 | 49 | 339,000 |

NOTE: The District of Columbia is classed as a city, hence is nat ranked with the states.

REPORTED CASES OF POST-INFECTIOUS AND POST-IMMUNIZATION ENCEPHALITIS FOR NOVEMBER AND DECEMBER
NINE WEEKS FROM 11-7-64 – 1-2-65

| State | Mumps | Chickenpox | Measles | Rubella | Influenza | Herpes Simplex | Respiratary Syncitial | Post-Immunizatian | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Post-Vaccinial | Post-Pertussis |
| Arkansas | .... | ..... | 1 | ..... | 1 | ..... | ..... | ..... | ..... |
| California | 26 | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... |
| Georgia | .... | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... |
| Illinois | 3 | 1 | 1 | ..... | ..... | ..... | ..... | ..... | ..... |
| Iowa | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Nebraska | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| New York, Upstate | 1 | 2 | ..... | ..... | ..... | ..... | ..... | 1 | ..... |
| Pennsylvania | 4 | 1 | ..... | ..... | 1 | ..... | ..... | 1 | ..... |
| Rhode Island | 5 | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... |
| Virginia | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Washington | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| U.S. Total | 44 | 4 | 7 | ..... | 2 | ..... | ..... | 2 | ..... |
| U.S. Cumulative Total* Through 1/2/65 | 480 | 64 | 182 | 34 | 12 | 10 | 1 | 3 | 1 |

* Includes revised and delayed reports.

(States not reporting a case not listed)

## SALMONELLA REPORT

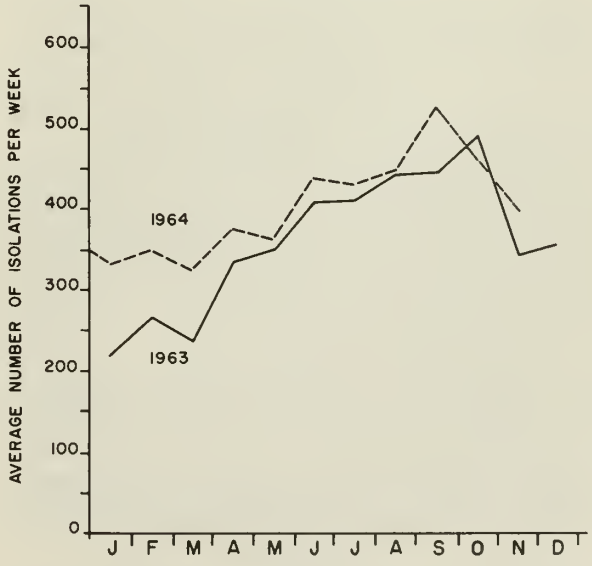
During November 1964, 1,595 human isolations of salmonella were reported to the Salmonella Surveillance Unit for an average number of isolations per week of 339. This represents a decrease of 63 from the figure for October 1964 but an increase of 144 isolations over the figure for November 1963. The decrease from October to November in 1964, parallels that seen during the same period in 1963 and is felt to be related to seasonal variations.

The 7 most frequently reported serotypes accounted for 62 percent of all isolations although representing only 10 percent of the 70 different serotypes reported during the month. The 7 commonest serotypes isolated and their respective frequency calculated as a percentage of total isolates is shown below.

| | |
|---|---|
| *Salmonella typhi-murium* and *S. typhi-murium* var. *copenhagen* | 27.0 percent |
| *S. infantis* | 7.7 percent |
| *S. heidelberg* | 7.3 percent |
| *S. newport* | 6.7 percent |
| *S. enteritidis* | 4.9 percent |
| *S. derby* | 4.3 percent |
| *S. oranienburg* | 3.8 percent |

There were 479 nonhuman isolates reported in November, representing a decrease of 73 from the previous month. The commonest nonhuman isolate was *S. typhi-murium* and *S. typhi-murium* var. *copenhagen* which accounted for 19.6 percent of all nonhuman isolates.

REPORTED HUMAN ISOLATIONS OF SALMONELLAE IN THE UNITED STATES
1963 - 1964



SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: BY REPORTING AREA DECEMBER 1964 AND DECEMBER 1963 - PROVISIONAL DATA

| Reporting Area | DECEMBER | | Cumulative JAN. - DEC. | | Reporting Area | DECEMBER | | Cumulative JAN. - DEC. | |
|---|---|---|---|---|---|---|---|---|---|
| | 1964 | 1963 | 1964 | 1963 | | 1964 | 1963 | 1964 | 1963 |
| NEW ENGLAND | 42 | 39 | 484 | 465 | EAST SOUTH CENTRAL | 171 | 109 | 1,921 | 1,537 |
| Maine | 2 | 1 | 8 | 12 | Kentucky | 20 | 10 | 178 | 149 |
| New Hampshire | 1 | - | 10 | 5 | Tennessee | 38 | 34 | 479 | 400 |
| Vermont | - | - | 3 | 7 | Alabama | 78 | 56 | 902 | 695 |
| Massachusetts | 21 | 27 | 284 | 300 | Mississippi | 35 | 9 | 362 | 293 |
| Rhode Island | 1 | 1 | 18 | 14 | | | | | |
| Connecticut | 17 | 10 | 161 | 127 | WEST SOUTH CENTRAL | 182 | 195 | 2,596 | 2,694 |
| | | | | | Arkansas | 22 | 17 | 227 | 201 |
| MIDDLE ATLANTIC | 470 | 518 | 5,454 | 6,171 | Louisiana | 55 | 44 | 737 | 560 |
| Upstate New York | 42 | 70 | 635 | 711 | Oklahoma | 16 | 23 | 151 | 198 |
| New York City | 299 | 288 | 3,180 | 3,489 | Texas | 89 | 111 | 1,481 | 1,735 |
| Pa. (Excl. Phila.) | 16 | 13 | 182 | 173 | | | | | |
| Philadelphia | 22 | 30 | 309 | 611 | MOUNTAIN | 35 | 43 | 532 | 491 |
| New Jersey | 91 | 117 | 1,148 | 1,187 | Montana | 1 | 1 | 32 | 14 |
| | | | | | Idaho | 1 | 1 | 8 | 8 |
| EAST NORTH CENTRAL | 249 | 157 | 2,487 | 1,964 | Wyoming | - | 1 | 8 | 16 |
| Ohio | 58 | 52 | 584 | 433 | Colorado | 2 | 4 | 35 | 37 |
| Indiana | 5 | 5 | 70 | 56 | New Mexico | 10 | 21 | 180 | 148 |
| Downstate Illinois | 22 | 7 | 160 | 119 | Arizona | 14 | 10 | 219 | 194 |
| Chicago | 103 | 47 | 979 | 849 | Utah | 1 | - | 10 | 17 |
| Michigan | 58 | 41 | 622 | 453 | Nevada | 6 | 5 | 40 | 57 |
| Wisconsin | 3 | 5 | 72 | 54 | | | | | |
| | | | | | PACIFIC | 178 | 223 | 2,308 | 2,251 |
| WEST NORTH CENTRAL | 44 | 41 | 552 | 490 | Washington | 2 | 6 | 73 | 124 |
| Minnesota | 9 | 4 | 124 | 75 | Oregon | 5 | 15 | 76 | 71 |
| Iowa | 4 | 3 | 37 | 29 | California | 167 | 200 | 2,131 | 2,028 |
| Missouri | 19 | 15 | 253 | 224 | Alaska | - | 1 | 9 | 8 |
| North Dakota | - | - | - | 4 | Hawaii | 4 | 1 | 19 | 20 |
| South Dakota | 5 | 9 | 53 | 39 | | | | | |
| Nebraska | 4 | 6 | 56 | 60 | U. S. TOTAL | 1,875 | 1,724 | 23,171 | 22,251 |
| Kansas | 3 | 4 | 29 | 59 | | | | | |
| | | | | | TERRITORIES | 73 | 39 | 874 | 841 |
| SOUTH ATLANTIC | 504 | 399 | 6,837 | 6,188 | Puerto Rico | 71 | 31 | 845 | 825 |
| Delaware | 3 | 4 | 84 | 53 | Virgin Islands | 2 | 8 | 29 | 16 |
| Maryland | 38 | 29 | 513 | 542 | | | | | |
| District of Columbia | 36 | 40 | 698 | 676 | | | | | |
| Virginia | 20 | 24 | 307 | 329 | | | | | |
| West Virginia | 8 | 8 | 59 | 47 | | | | | |
| North Carolina | 138 | 49 | 1,176 | 874 | | | | | |
| South Carolina | 58 | 46 | 860 | 721 | | | | | |
| Georgia | 83 | 64 | 1,137 | 1,063 | | | | | |
| Florida | 120 | 135 | 2,003 | 1,883 | | | | | |

Note: Cumulative Totals include revised and delayed reports through previous months.

## THE CURRENT MORTALITY CHART

Weekly deaths in 122 United States cities are presented in the accompanying figure. The reported numbers are shown as dots joined by line segments. The solid line for each mortality category is the expected number of deaths. The dashed line, 1.65 standard deviations above the expected number is the "epidemic threshold," a criterion for recognition of significant deviations in excess of the expected number. The vertical bars joining the curve of expected numbers with the epidemic threshold are in alignment with the divisions of the scale at the bottom of the chart which mark 4-week time periods. The vertical scale of each mortality curve is the same when measured in standard deviation units.

Previous charts were based on data for 108 cities but since the autumn of 1957 reports have been received from 14 additional cities. The present charts, constructed from data for the period 1959-63, include these cities. All of the 122 reporting cities are listed in Table 4, the format of which has been altered to provide a weekly record of deaths by each of the four categories. The table will be published each week, the chart periodically.

### The Data

The deaths reported are those recorded each week in the Vital Statistics Offices of the 122 cities. They are by place of occurrence of death, thus including deaths of persons whose residence may be elsewhere and not including deaths of residents which occur in other vital statistics jurisdictions. The report is a count of deaths certificates filed; so that each week the deaths recorded include some which happened during the preceding week. The number of delayed certificates usually increases during holiday periods, causing a negative deviation during the holiday week, followed by a positive deviation when the delayed certificates are included in the report for the succeeding week.

The population of the central cities of the 122 reporting cities was 49,566,346 in 1960 but inclusion of the urban fringe population increases this total to 82,304,118. Since the central cities frequently include hospital facilities and nursing homes which provide services to surrounding areas, the principal population in which the reported deaths occur is in the range of 50-80 million persons. Because of this great range the charts show the number of deaths rather than the death rate. In order to compensate for secular change in number of deaths as a result of changes in population, hospital facilities and death rates, a linear secular trend component, described in the table (p. 9), is included in the estimation of the expected number of deaths.

### Excess Mortality

During influenza epidemics marked excess pneumonia-influenza mortality extending over a period of several weeks is characteristic. This is evident on the chart for

the period early in 1963. For a full account see Collins (1957) and Langmuir *et al.*, (1964). Associated increases in deaths from all causes also may be observed. These are primarily deaths assigned to heart diseases and other chronic conditions. The relationship to influenza epidemics has been discussed by Eickhoff *et al.*, (1961) and by Collins and Lehman (1953).

Excess mortality in the 122 cities during influenza epidemics since the pandemic of 1957-58 is given in Table 1. Influenza $A_2$ first appeared in the United States in the summer of 1957. Excess mortality became noticeable in October, rose to a maximum during the week ending November 2nd and then decreased to near the expected numbers in late December. This was the first early autumn episode of this kind since the 1918 pandemic. In early 1958 excess mortality rose again, reaching a peak during the week ending March 1. This "second wave" appeared at the usual time of excess epidemic mortality. Outbreaks of Influenza $A_2$ accompanied by marked excess mortality occurred again in early 1960 and in early 1963. During these epidemics excess mortality was of the same order of magnitude as during the second wave of 1957-58.

Minor influenza Type B epidemics were observed in 1952 and 1955 but the first major recurrence since 1944 took place in 1962. In this epidemic excess mortality recorded for both pneumonia-influenza and deaths from all causes was lower than in the Type $A_2$ epidemics of the 1958-63 period. Excess mortality among persons under 65 years of age was negligible.

Brief periods of excess mortality may be observed in summer months during severe heat waves. An account of two recent episodes in the East North Central States has been given by Schuman *et al.*, (1964). One of these occurring in the 7th period of 1963, is reflected in the data for the 122 cities.

Martin and Bradley (1960) report increased mortality in London immediately following days of heavy fog and atmospheric pollution but it seems unlikely in this country that such occurrences would happen simultaneously in a sufficiently large number of cities to cause marked upward deviations in the combined reports of the 122 cities.

## Construction of the Mortality Curves

The curves of expected mortality are of the form

$$\text{Expected Deaths} = u + rt + \sum_{i=1}^{2} A_i \cos(\theta_t + \phi_i). \qquad (1)$$

In this equation r is a linear trend coefficient, positive except in the curve for deaths under one year of age; the cosine function describes the seasonal variation. The procedures employed, using data for the period September 1959 through August 1963 differ from those previously described, (Serfling, 1964) by inclusion of a second cosine term. In the earlier studies, using data for the period 1954-1960, only a single cosine term was required. Least squares estimates of the parameters of equation (1) were obtained by an analytical inversion of the coefficient matrix of the normal equations, a modification of the method given in the paper cited.

As described in that paper the epidemic threshold (dashed line in the figure) was calculated from the differences between observed and expected values after exclusion of epidemic periods and other weeks with extreme deviations. It is placed at a distance (1.65 standard deviations above the expected level) such that the random occurrence of two successive deviations which exceed the epidemic threshold is unlikely. If the deviations were successive independent events the odds would be 9 to 1 against the occurrence of one or more runs of two such events in a series of 26 trials. The "epidemic threshold" thus serves as a device for screening random fluctuations which may occur because of temporary variations in mortality, artifacts such as delayed reporting and other variations of a random character. In practice the stated odds are approximate since successive deviations are not independent but exhibit a small negative serial correlation. Use of this criterion for several years has indicated that the discrepancy between theory and practice is not serious.

**EXCESS MORTALITY IN THE 122 CITIES DURING RECENT INFLUENZA EPIDEMICS**

| Epidemic Period (Weeks Ended) | Duration in Weeks | Influenza Type | Excess Mortality | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Number of Excess Deaths | | | | | Percent of Expected Deaths | | | | |
| | | | All Causes | | | | Pneumonia-Influenza | All Causes | | | | Pneumonia-Influenza |
| | | | All Ages | 65 & Over | 1–64 | Under 1 | | All Ages | 65 & Over | 1–64 | Under 1 | |
| 1957, Oct. 5–Dec. 28 | 13 | $A_2$ | 12,426 | 7,469 | 5,030 | –73 | 3,753 | 8.6 | 9.8 | 8.9 | –0.6 | 77.7 |
| 1958, Jan. 4–May 3 | 18 | $A_2$ | 14,330 | 10,911 | 3,486 | –67 | 3,416 | 6.8 | 9.7 | 4.2 | –0.4 | 41.5 |
| 1960, Jan. 2–Apr. 30 | 18 | $A_2$ | 12,237 | 9,333 | 2,903 | 1 | 4,400 | 5.6 | 7.8 | 3.5 | 0.0 | 49.1 |
| 1962, Dec. 30–May 5 | 19 | B | 5,855 | 6,216 | –312 | –49 | 1,446 | 2.5 | 4.7 | –0.3 | –0.3 | 14.4 |
| 1963, Jan. 5–Moy 4 | 18 | $A_2$ | 16,550 | 12,505 | 3,922 | 123 | 3,816 | 7.3 | 9.8 | 4.6 | 0.8 | 38.7 |

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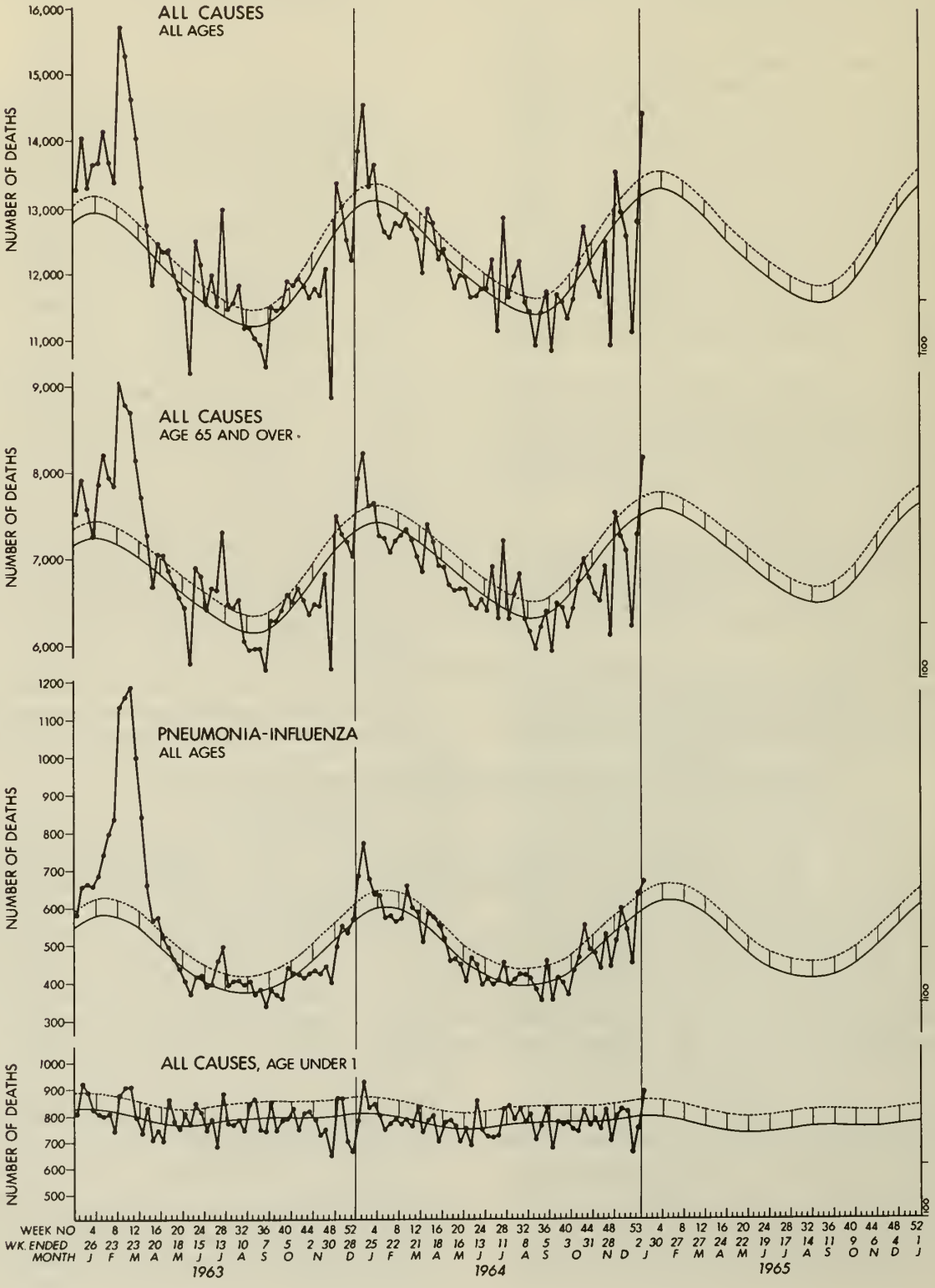
## DEATHS IN 122 UNITED STATES CITIES THROUGH THE WEEK ENDING JANUARY 9, 1965



# PNEUMONIA-INFLUENZA DEATHS IN 122 UNITED STATES CITIES

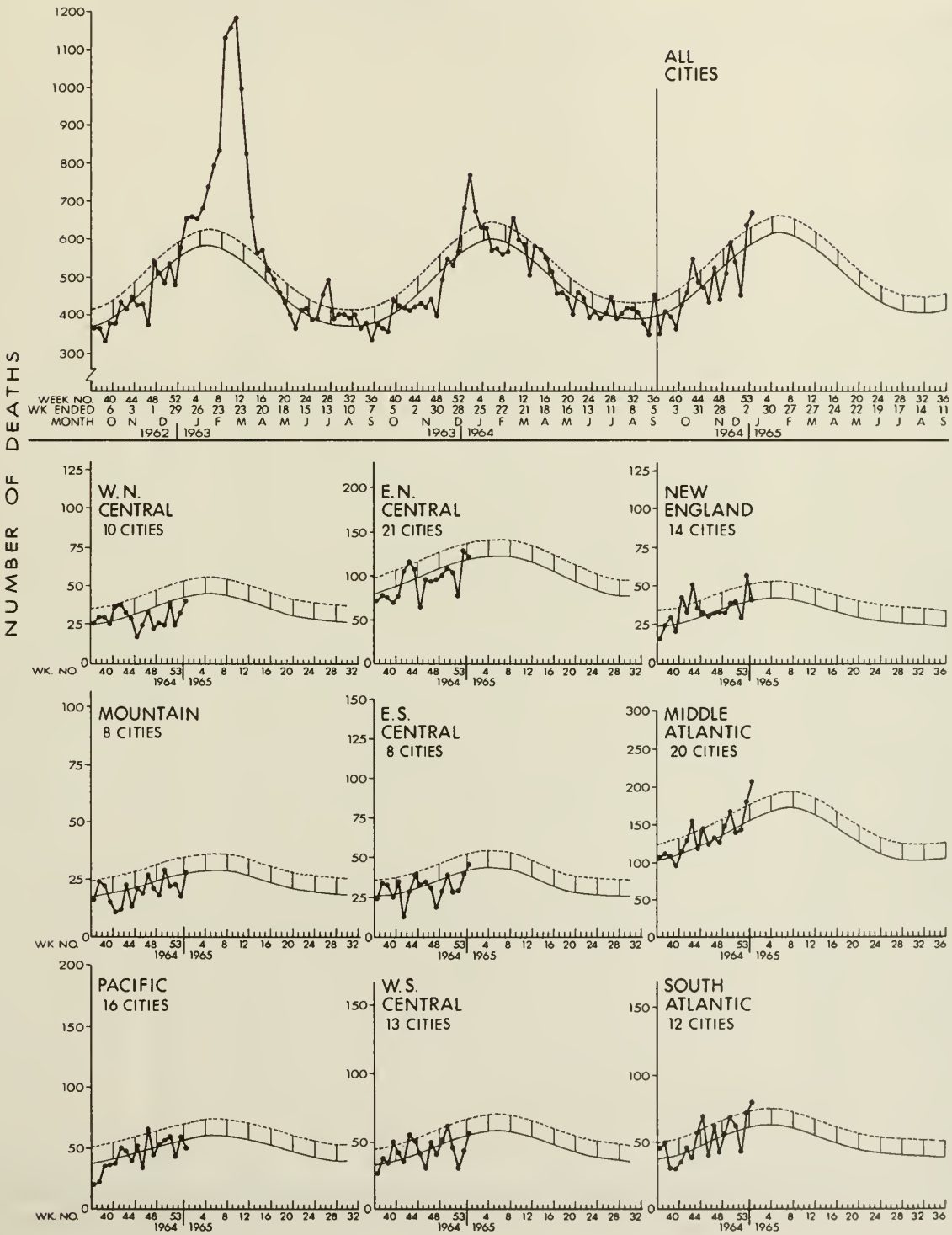


Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JANUARY 9, 1965 AND JANUARY 4, 1964 (1st WEEK)

| Area | Aseptic Meningitis | | Encephalitis | | Poliomyelitis | | | | | | Diphtheria | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Primary | Post-Inf. | Total Cases | | | Paralytic | | | | |
| | | | | | | Cumulative | | | Cumulative | | | Cum. |
| | 1965 | 1964 | 1965 | 1965 | 1965 | 1965 | 1964 | 1965 | 1965 | 1964 | 1965 | 1965 |
| UNITED STATES... | 38 | 19 | 31 | 5 | - | - | - | - | - | - | 3 | 3 |
| NEW ENGLAND..... | - | - | 3 | 1 | - | - | - | - | - | - | - | - |
| Maine..... | - | - | - | - | - | - | - | - | - | - | - | - |
| New Hampshire..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Vermont..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Massachusetts..... | - | - | 3 | - | - | - | - | - | - | - | - | - |
| Rhode Island..... | - | - | - | 1 | - | - | - | - | - | - | - | - |
| Connecticut..... | - | - | - | - | - | - | - | - | - | - | - | - |
| MIDDLE ATLANTIC..... | 6 | 1 | 13 | - | - | - | - | - | - | - | - | - |
| New York City..... | - | - | 1 | - | - | - | - | - | - | - | - | - |
| New York, Up-State. | 1 | - | - | - | - | - | - | - | - | - | - | - |
| New Jersey..... | 3 | - | 10 | - | - | - | - | - | - | - | - | - |
| Pennsylvania..... | 2 | 1 | 2 | - | - | - | - | - | - | - | - | - |
| EAST NORTH CENTRAL... | - | 2 | - | - | - | - | - | - | - | - | - | - |
| Ohio..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Indiana..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Illinois..... | - | 2 | - | - | - | - | - | - | - | - | - | - |
| Michigan..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Wisconsin..... | - | - | - | - | - | - | - | - | - | - | - | - |
| WEST NORTH CENTRAL... | 1 | - | 1 | - | - | - | - | - | - | - | 2 | 2 |
| Minnesota..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Iowa..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Missouri..... | - | - | - | - | - | - | - | - | - | - | 1 | 1 |
| North Dakota..... | - | - | - | - | - | - | - | - | - | - | - | - |
| South Dakota..... | - | - | - | - | - | - | - | - | - | - | 1 | 1 |
| Nebraska..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Kansas..... | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| SOUTH ATLANTIC..... | 2 | 1 | 6 | - | - | - | - | - | - | - | 1 | 1 |
| Delaware..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Maryland..... | - | - | 1 | - | - | - | - | - | - | - | - | - |
| Dist. of Columbia.. | - | - | - | - | - | - | - | - | - | - | - | - |
| Virginia..... | - | - | - | - | - | - | - | - | - | - | - | - |
| West Virginia..... | - | - | - | - | - | - | - | - | - | - | - | - |
| North Carolina..... | - | - | - | - | - | - | - | - | - | - | - | - |
| South Carolina..... | 1 | - | - | - | - | - | - | - | - | - | - | - |
| Georgia..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Florida..... | 1 | 1 | 5 | - | - | - | - | - | - | - | 1 | 1 |
| EAST SOUTH CENTRAL... | 8 | 2 | 2 | - | - | - | - | - | - | - | - | - |
| Kentucky..... | 8 | 1 | 1 | - | - | - | - | - | - | - | - | - |
| Tennessee..... | - | 1 | 1 | - | - | - | - | - | - | - | - | - |
| Alabama..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Mississippi..... | - | - | - | - | - | - | - | - | - | - | - | - |
| WEST SOUTH CENTRAL... | 4 | - | 1 | - | - | - | - | - | - | - | - | - |
| Arkansas..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Louisiana..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Oklahoma..... | 2 | - | 1 | - | - | - | - | - | - | - | - | - |
| Texas..... | 2 | - | - | - | - | - | - | - | - | - | - | - |
| MOUNTAIN..... | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - |
| Montana..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Idaho..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Colorado..... | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| New Mexico..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Arizona..... | 1 | 1 | - | - | - | - | - | - | - | - | - | - |
| Utah..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada..... | - | - | - | - | - | - | - | - | - | - | - | - |
| PACIFIC..... | 15 | 12 | 4 | 4 | - | - | - | - | - | - | - | - |
| Washington..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Oregon..... | - | - | - | - | - | - | - | - | - | - | - | - |
| California..... | 14 | 8 | 4 | 4 | - | - | - | - | - | - | - | - |
| Alaska..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Hawaii..... | 1 | 4 | - | - | - | - | - | - | - | - | - | - |
| Puerto Rico | - | - | - | - | - | - | - | - | - | - | - | - |

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JANUARY 9, 1965 AND JANUARY 4, 1964 (1st WEEK) - Continued

| Area | Brucellosis | Infectious Hepatitis including Serum Hepatitis | | | | | Meningococcal Infections | | | Tetanus | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total incl. unk. | Under 20 years | 20 years and over | Cumulative Totals | | | Cumulative | | | Cum. |
| | 1965 | 1965 | 1965 | 1965 | 1965 | 1964 | 1965 | 1965 | 1964 | 1965 | 1965 |
| UNITED STATES... | 8 | 685 | 343 | 283 | 685 | 625 | 50 | 50 | 37 | 3 | 3 |
| NEW ENGLAND..... | - | 46 | 20 | 19 | 46 | 91 | 1 | 1 | 2 | 1 | 1 |
| Maine..... | - | 15 | 9 | 4 | 15 | 40 | - | - | - | - | - |
| New Hampshire..... | - | 5 | - | 4 | 5 | 13 | - | - | - | 1 | 1 |
| Vermont..... | - | 3 | 1 | 1 | 3 | 8 | - | - | - | - | - |
| Massachusetts..... | - | 11 | 6 | 5 | 11 | 17 | 1 | 1 | 1 | - | - |
| Rhode Island..... | - | 3 | 1 | 2 | 3 | 3 | - | - | - | - | - |
| Connecticut..... | - | 9 | 3 | 3 | 9 | 10 | - | - | 1 | - | - |
| MIDDLE ATLANTIC..... | - | 114 | 56 | 58 | 114 | 183 | 7 | 7 | 4 | - | - |
| New York City..... | - | 28 | 11 | 17 | 28 | 27 | 2 | 2 | 1 | - | - |
| New York, Up-State. | - | 31 | 23 | 8 | 31 | 109 | 3 | 3 | 2 | - | - |
| New Jersey..... | - | 21 | 6 | 15 | 21 | 13 | 1 | 1 | - | - | - |
| Pennsylvania..... | - | 34 | 16 | 18 | 34 | 34 | 1 | 1 | 1 | - | - |
| EAST NORTH CENTRAL... | - | 137 | 83 | 37 | 137 | 34 | 4 | 4 | 1 | - | - |
| Ohio..... | - | 55 | 30 | 10 | 55 | 20 | 2 | 2 | - | - | - |
| Indiana..... | - | 5 | 2 | 3 | 5 | - | - | - | - | - | - |
| Illinois..... | - | 23 | 19 | 4 | 23 | 2 | 2 | 2 | 1 | - | - |
| Michigan..... | - | 41 | 25 | 16 | 41 | 3 | - | - | - | - | - |
| Wisconsin..... | - | 13 | 7 | 4 | 13 | 9 | - | - | - | - | - |
| WEST NORTH CENTRAL... | 7 | 46 | 27 | 18 | 46 | 36 | 4 | 4 | - | 2 | 2 |
| Minnesota..... | - | 2 | 1 | 1 | 2 | - | - | - | - | 1 | 1 |
| Iowa..... | 7 | 30 | 18 | 11 | 30 | 9 | - | - | - | - | - |
| Missouri..... | - | 3 | 2 | 1 | 3 | 4 | 1 | 1 | - | 1 | 1 |
| North Dakota..... | - | - | - | - | - | - | 3 | 3 | - | - | - |
| South Dakota..... | - | 1 | 1 | - | 1 | 7 | - | - | - | - | - |
| Nebraska..... | - | - | - | - | - | 6 | - | - | - | - | - |
| Kansas..... | - | 10 | 5 | 5 | 10 | 10 | - | - | - | - | - |
| SOUTH ATLANTIC..... | - | 65 | 24 | 36 | 65 | 43 | 11 | 11 | 7 | - | - |
| Delaware..... | - | - | - | - | - | - | - | - | - | - | - |
| Maryland..... | - | 13 | 7 | 5 | 13 | 13 | - | - | 1 | - | - |
| Dist. of Columbia.. | - | - | - | - | - | 1 | - | - | - | - | - |
| Virginia..... | - | 12 | 5 | 3 | 12 | 4 | 1 | 1 | - | - | - |
| West Virginia..... | - | 3 | 3 | - | 3 | - | 1 | 1 | - | - | - |
| North Carolina..... | - | 7 | 2 | 5 | 7 | 5 | - | - | 1 | - | - |
| South Carolina..... | - | 3 | 2 | 1 | 3 | - | - | - | 2 | - | - |
| Georgia..... | - | 9 | 2 | 7 | 9 | - | 4 | 4 | - | - | - |
| Florida..... | - | 18 | 3 | 15 | 18 | 20 | 5 | 5 | 3 | - | - |
| EAST SOUTH CENTRAL... | 1 | 31 | 18 | 13 | 31 | 43 | 3 | 3 | 3 | - | - |
| Kentucky..... | - | 10 | 9 | 1 | 10 | 21 | 1 | 1 | 2 | - | - |
| Tennessee..... | 1 | 9 | 5 | 4 | 9 | 14 | 2 | 2 | 1 | - | - |
| Alabama..... | - | 10 | 4 | 6 | 10 | 7 | - | - | - | - | - |
| Mississippi..... | - | 2 | - | 2 | 2 | 1 | - | - | - | - | - |
| WEST SOUTH CENTRAL... | - | 89 | 52 | 36 | 89 | 32 | 9 | 9 | 7 | - | - |
| Arkansas..... | - | 14 | 8 | 6 | 14 | 5 | 2 | 2 | 1 | - | - |
| Louisiana..... | - | 10 | 8 | 2 | 10 | 3 | 1 | 1 | 1 | - | - |
| Oklahoma..... | - | 3 | - | 3 | 3 | 2 | 3 | 3 | 2 | - | - |
| Texas..... | - | 62 | 36 | 25 | 62 | 22 | 3 | 3 | 3 | - | - |
| MOUNTAIN..... | - | 42 | 9 | 5 | 42 | 37 | - | - | 5 | - | - |
| Montana..... | - | 4 | 3 | 1 | 4 | 1 | - | - | - | - | - |
| Idaho..... | - | 9 | - | - | 9 | 2 | - | - | 1 | - | - |
| Wyoming..... | - | 2 | 2 | - | 2 | - | - | - | - | - | - |
| Colorado..... | - | 1 | - | - | 1 | 8 | - | - | 2 | - | - |
| New Mexico..... | - | 6 | 3 | 2 | 6 | 3 | - | - | 2 | - | - |
| Arizona..... | - | 17 | - | - | 17 | 15 | - | - | - | - | - |
| Utah..... | - | 3 | 1 | 2 | 3 | 7 | - | - | - | - | - |
| Nevada..... | - | - | - | - | - | 1 | - | - | - | - | - |
| PACIFIC..... | - | 115 | 54 | 61 | 115 | 126 | 11 | 11 | 8 | - | - |
| Washington..... | - | 3 | 1 | 2 | 3 | 27 | - | - | 1 | - | - |
| Oregon..... | - | 17 | 13 | 4 | 17 | 8 | - | - | - | - | - |
| California..... | - | 79 | 26 | 53 | 79 | 78 | 10 | 10 | 7 | - | - |
| Alaska..... | - | 16 | 14 | 2 | 16 | 9 | 1 | 1 | - | - | - |
| Hawaii..... | - | - | - | - | - | 4 | - | - | - | - | - |
| Puerto Rico | - | - | - | - | - | 2 | - | - | - | - | - |

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JANUARY 9, 1965 AND JANUARY 4, 1964 (1st WEEK) - Continued

| Area | Measles | | | Strept. Sore Th. & Scarlet Fev. | Tularemia | | Typhoid Fever | | Rabies in Animals | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Cumulative | | | | Cum. | | Cum. | | Cum. |
| | 1965 | 1965 | 1964 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 | 1965 |
| UNITED STATES... | 5,203 | 5,203 | 3,191 | 8,667 | 4 | 4 | 1 | 1 | 92 | 92 |
| NEW ENGLAND..... | 1,876 | 1,876 | 149 | 1,044 | - | - | - | - | 1 | 1 |
| Maine..... | 257 | 257 | 6 | 162 | - | - | - | - | - | - |
| New Hampshire..... | 58 | 58 | 3 | 6 | - | - | - | - | - | - |
| Vermont..... | 5 | 5 | 22 | 7 | - | - | - | - | - | - |
| Massachusetts..... | 896 | 896 | 57 | 82 | - | - | - | - | - | - |
| Rhode Island..... | 84 | 84 | 6 | 47 | - | - | - | - | - | - |
| Connecticut..... | 576 | 576 | 55 | 740 | - | - | - | - | 1 | 1 |
| MIDDLE ATLANTIC..... | 115 | 115 | 815 | 396 | - | - | - | - | 4 | 4 |
| New York City..... | 28 | 28 | 316 | 22 | - | - | - | - | - | - |
| New York, Up-State. | 32 | 32 | 169 | 300 | - | - | - | - | 2 | 2 |
| New Jersey..... | - | - | 181 | 35 | - | - | - | - | - | - |
| Pennsylvania..... | 55 | 55 | 149 | 39 | - | - | - | - | 2 | 2 |
| EAST NORTH CENTRAL... | 502 | 502 | 322 | 886 | - | - | - | - | 3 | 3 |
| Ohio..... | 69 | 69 | 94 | 94 | - | - | - | - | - | - |
| Indiana..... | 32 | 32 | 120 | 148 | - | - | - | - | 2 | 2 |
| Illinois..... | 25 | 25 | 23 | 89 | - | - | - | - | - | - |
| Michigan..... | 248 | 248 | 21 | 366 | - | - | - | - | - | - |
| Wisconsin..... | 128 | 128 | 64 | 189 | - | - | - | - | 1 | 1 |
| WEST NORTH CENTRAL... | 350 | 350 | 59 | 392 | - | - | - | - | 12 | 12 |
| Minnesota..... | 3 | 3 | - | 8 | - | - | - | - | 3 | 3 |
| Iowa..... | 158 | 158 | 17 | 79 | - | - | - | - | 4 | 4 |
| Missouri..... | 49 | 49 | - | 12 | - | - | - | - | 1 | 1 |
| North Dakota..... | 124 | 124 | 41 | 226 | - | - | - | - | 3 | 3 |
| South Dakota..... | 12 | 12 | 1 | 44 | - | - | - | - | - | - |
| Nebraska..... | 4 | 4 | - | 3 | - | - | - | - | - | - |
| Kansas..... | NN | NN | NN | 20 | - | - | - | - | 1 | 1 |
| SOUTH ATLANTIC..... | 783 | 783 | 436 | 1,134 | 2 | 2 | - | - | 12 | 12 |
| Delaware..... | 12 | 12 | - | 15 | - | - | - | - | - | - |
| Maryland..... | 10 | 10 | 71 | 53 | - | - | - | - | - | - |
| Dist. of Columbia.. | - | - | 17 | 1 | - | - | - | - | - | - |
| Virginia..... | 40 | 40 | 100 | 212 | - | - | - | - | 12 | 12 |
| West Virginia..... | 653 | 653 | 174 | 500 | - | - | - | - | - | - |
| North Carolina..... | 27 | 27 | 12 | 27 | - | - | - | - | - | - |
| South Carolina..... | 13 | 13 | 53 | 111 | 1 | 1 | - | - | - | - |
| Georgia..... | 5 | 5 | - | 34 | 1 | 1 | - | - | - | - |
| Florida..... | 23 | 23 | 9 | 181 | - | - | - | - | - | - |
| EAST SOUTH CENTRAL... | 233 | 233 | 592 | 1,303 | - | - | - | - | 41 | 41 |
| Kentucky..... | 6 | 6 | 426 | 87 | - | - | - | - | 2 | 2 |
| Tennessee..... | 165 | 165 | 146 | 1,114 | - | - | - | - | 37 | 37 |
| Alabama..... | 26 | 26 | 13 | 71 | - | - | - | - | 2 | 2 |
| Mississippi..... | 36 | 36 | 7 | 31 | - | - | - | - | - | - |
| WEST SOUTH CENTRAL... | 491 | 491 | 207 | 794 | 1 | 1 | 1 | 1 | 15 | 15 |
| Arkansas..... | - | - | 25 | 1 | - | - | 1 | 1 | - | - |
| Louisiana..... | 1 | 1 | - | - | - | - | - | - | 2 | 2 |
| Oklahoma..... | 5 | 5 | 1 | 15 | 1 | 1 | - | - | 4 | 4 |
| Texas..... | 485 | 485 | 181 | 778 | - | - | - | - | 9 | 9 |
| MOUNTAIN..... | 521 | 521 | 191 | 1,414 | 1 | 1 | - | - | 1 | 1 |
| Montana..... | 232 | 232 | 55 | 37 | - | - | - | - | - | - |
| Idaho..... | 76 | 76 | 52 | 122 | - | - | - | - | - | - |
| Wyoming..... | 15 | 15 | - | 38 | - | - | - | - | - | - |
| Colorado..... | 76 | 76 | 16 | 598 | - | - | - | - | - | - |
| New Mexico..... | 14 | 14 | 5 | 324 | - | - | - | - | - | - |
| Arizona..... | 22 | 22 | 45 | 179 | - | - | - | - | 1 | 1 |
| Utah..... | 86 | 86 | 7 | 116 | 1 | 1 | - | - | - | - |
| Nevada..... | - | - | 11 | - | - | - | - | - | - | - |
| PACIFIC..... | 332 | 332 | 420 | 1,304 | - | - | - | - | 3 | 3 |
| Washington..... | 5 | 5 | 99 | 109 | - | - | - | - | - | - |
| Oregon..... | 132 | 132 | 33 | 21 | - | - | - | - | - | - |
| California..... | 152 | 152 | 167 | 1,064 | - | - | - | - | 3 | 3 |
| Alaska..... | 2 | 2 | 119 | 32 | - | - | - | - | - | - |
| Hawaii..... | 41 | 41 | 2 | 78 | - | - | - | - | - | - |
| Puerto Rico | 40 | 40 | 11 | - | - | - | - | - | - | - |

Week No. 1

## Table 4. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JANUARY 9, 1965

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

| Area | All Causes | | Pneumonia and Influenza All Ages | Under 1 year All Causes |
|---|---|---|---|---|
| | All Ages | 65 years and over | | |
| NEW ENGLAND: | 859 | 511 | 41 | 66 |
| Boston, Mass. | 260 | 147 | 13 | 21 |
| Bridgeport, Conn. | 49 | 24 | 3 | 4 |
| Cambridge, Mass. | 35 | 22 | - | 2 |
| Fall River, Mass. | 58 | 40 | 2 | 3 |
| Hartford, Conn. | 53 | 31 | - | 5 |
| Lowell, Mass. | 31 | 24 | 2 | 3 |
| Lynn, Mass. | 25 | 19 | 3 | - |
| New Bedford, Mass. | 31 | 20 | 2 | 2 |
| New Haven, Conn. | 64 | 22 | 2 | 12 |
| Providence, R. I. | 60 | 36 | 4 | 6 |
| Somerville, Mass. | 16 | 12 | 1 | - |
| Springfield, Mass. | 66 | 41 | 4 | 3 |
| Waterbury, Conn. | 45 | 33 | - | - |
| Worcester, Mass. | 66 | 40 | 5 | 5 |
| MIDDLE ATLANTIC: | 4,087 | 2,416 | 206 | 216 |
| Albany, N. Y. | 46 | 28 | 2 | 4 |
| Allentown, Pa. | 44 | 26 | 2 | 3 |
| Buffalo, N. Y. | 188 | 119 | 6 | 9 |
| Camden, N. J. | 62 | 33 | 3 | 8 |
| Elizabeth, N. J. | 39 | 19 | 1 | 3 |
| Erie, Pa. | 57 | 34 | 1 | 4 |
| Jersey City, N. J. | 103 | 61 | 8 | 5 |
| Newark, N. J. | 149 | 70 | 6 | 29 |
| New York City, N. Y. | 2,129 | 1,254 | 104 | 99 |
| Paterson, N. J. | 48 | 31 | 5 | 5 |
| Philadelphia, Pa. | 497 | 289 | 12 | 12 |
| Pittsburgh, Pa. | 267 | 152 | 12 | 13 |
| Reading, Pa. | 59 | 37 | 4 | 6 |
| Rochester, N. Y. | 130 | 84 | 18 | 5 |
| Schenectady, N. Y. | 31 | 22 | - | - |
| Scranton, Pa. | 55 | 39 | 2 | 1 |
| Syracuse, N. Y. | 69 | 43 | - | 4 |
| Trenton, N. J. | 26 | 14 | 5 | 5 |
| Utica, N. Y. | 36 | 27 | 8 | - |
| Yonkers, N. Y. | 52 | 34 | 7 | 1 |
| EAST NORTH CENTRAL: | 2,910 | 1,586 | 121 | 195 |
| Akron, Ohio | 95 | 56 | 1 | 2 |
| Canton, Ohio | 51 | 31 | 4 | 1 |
| Chicago, Ill. | 904 | 472 | 46 | 74 |
| Cincinnati, Ohio | 189 | 118 | 3 | 8 |
| Cleveland, Ohio | 266 | 139 | 4 | 23 |
| Columbus, Ohio | 125 | 57 | 1 | 10 |
| Dayton, Ohio | 82 | 51 | 4 | 5 |
| Detroit, Mich. | 327 | 176 | 17 | 17 |
| Evansville, Ind. | 35 | 23 | 2 | 2 |
| Flint, Mich. | 56 | 24 | 4 | 7 |
| Fort Wayne, Ind. | 48 | 30 | 4 | 1 |
| Gary, Ind. | 27 | 8 | 3 | 1 |
| Grand Rapids, Mich. | 42 | 32 | 5 | 1 |
| Indianapolis, Ind. | 141 | 67 | 7 | 16 |
| Madison, Wis. | 34 | 20 | - | 3 |
| Milwaukee, Wis. | 172 | 95 | 3 | 6 |
| Peoria, Ill. | 35 | 21 | - | 1 |
| Rockford, Ill. | 42 | 22 | 4 | 5 |
| South Bend, Ind. | 47 | 30 | 2 | 1 |
| Toledo, Ohio | 130 | 78 | 6 | 7 |
| Youngstown, Ohio | 62 | 36 | 1 | 4 |
| WEST NORTH CENTRAL: | 1,056 | 598 | 40 | 66 |
| Des Moines, Iowa | 82 | 48 | 6 | 5 |
| Duluth, Minn. | 44 | 28 | - | 2 |
| Kansas City, Kans. | 41 | 14 | 2 | 5 |
| Kansas City, Mo. | 182 | 102 | 5 | 11 |
| Lincoln, Nebr. | 43 | 26 | 1 | 1 |
| Minneapolis, Minn. | 146 | 86 | 5 | 12 |
| Omaha, Nebr. | 84 | 45 | 2 | 9 |
| St. Louis, Mo. | 310 | 178 | 13 | 14 |
| St. Paul, Minn. | 74 | 42 | 2 | 4 |
| Wichita, Kans. | 50 | 29 | 4 | 3 |

| Area | All Causes | | Pneumonia and Influenza All Ages | Under 1 year All Causes |
|---|---|---|---|---|
| | All Ages | 65 years and over | | |
| SOUTH ATLANTIC: | 1,347 | 681 | 79 | 99 |
| Atlanta, Ga. | 154 | 65 | 9 | 12 |
| Baltimore, Md. | 275 | 132 | 11 | 22 |
| Charlotte, N. C. | 56 | 22 | 8 | 6 |
| Jacksonville, Fla. | 93 | 47 | - | 8 |
| Miami, Fla. | 102 | 55 | - | 5 |
| Norfolk, Va. | 78 | 42 | 6 | 9 |
| Richmond, Va. | 113 | 55 | 7 | 11 |
| Savannah, Ga. | 42 | 21 | 3 | 4 |
| St. Petersburg, Fla. | 89 | 68 | 11 | 2 |
| Tampa, Fla. | 82 | 48 | 6 | 4 |
| Washington, D. C. | 205 | 108 | 14 | 10 |
| Wilmington, Del. | 58 | 18 | 4 | 6 |
| EAST SOUTH CENTRAL: | 733 | 399 | 45 | 39 |
| Birmingham, Ala. | 94 | 48 | 3 | 9 |
| Chattanooga, Tenn. | 46 | 27 | 8 | 2 |
| Knoxville, Tenn. | 60 | 35 | 1 | 4 |
| Louisville, Ky. | 107 | 64 | 14 | 5 |
| Memphis, Tenn. | 186 | 99 | 4 | 5 |
| Mobile, Ala. | 56 | 28 | 3 | 5 |
| Montgomery, Ala. | 58 | 28 | 4 | 3 |
| Nashville, Tenn. | 126 | 70 | 8 | 6 |
| WEST SOUTH CENTRAL: | 1,243 | 640 | 56 | 87 |
| Austin, Tex. | 39 | 23 | 3 | 1 |
| Baton Rouge, La. | 52 | 35 | 1 | - |
| Corpus Christi, Tex. | 25 | 10 | 2 | 3 |
| Dallas, Tex. | 144 | 71 | 6 | 5 |
| El Paso, Tex. | 44 | 18 | 4 | 5 |
| Fort Worth, Tex. | 102 | 57 | 3 | 10 |
| Houston, Tex. | 256 | 105 | 9 | 24 |
| Little Rock, Ark. | 70 | 43 | 9 | 3 |
| New Orleans, La. | 153 | 83 | 4 | 7 |
| Oklahoma City, Okla. | 129 | 67 | 4 | 9 |
| San Antonio, Tex. | 119 | 64 | 2 | 15 |
| Shreveport, La. | 59 | 37 | 6 | 4 |
| Tulsa, Okla. | 51 | 27 | 3 | 1 |
| MOUNTAIN: | 485 | 292 | 28 | 33 |
| Albuquerque, N. Mex. | 43 | 22 | 3 | 4 |
| Colorado Springs, Colo. | 25 | 17 | 2 | 1 |
| Denver, Colo. | 118 | 69 | 6 | 7 |
| Ogden, Utah | 25 | 19 | 3 | 2 |
| Phoenix, Ariz. | 128 | 70 | 10 | 11 |
| Pueblo, Colo. | 20 | 14 | - | 1 |
| Salt Lake City, Utah | 59 | 44 | 2 | 3 |
| Tucson, Ariz. | 67 | 37 | 2 | 4 |
| PACIFIC:* | 1,706 | 1,049 | 50 | 92 |
| Berkeley, Calif. | 27 | 18 | - | 1 |
| Fresno, Calif. | 49 | 30 | 1 | 2 |
| Glendale, Calif. | 27 | 20 | - | - |
| Honolulu, Hawaii | 57 | 21 | 1 | 8 |
| Long Beach, Calif. | 76 | 47 | - | 5 |
| Los Angeles, Calif. | 475 | 277 | 23 | 36 |
| Oakland, Calif. | 102 | 66 | 1 | 8 |
| Pasadena, Calif.* | 36 | 27 | - | 1 |
| Portland, Oreg. | 182 | 108 | 3 | 7 |
| Sacramento, Calif. | 76 | 48 | 2 | 1 |
| San Diego, Calif. | 114 | 65 | 5 | 9 |
| San Francisco, Calif. | 201 | 126 | 3 | 3 |
| San Jose, Calif.* | 41 | 26 | 4 | 2 |
| Seattle, Wash. | 140 | 97 | 3 | 7 |
| Spokane, Wash. | 61 | 43 | 3 | - |
| Tacoma, Wash.* | 42 | 30 | 1 | 2 |
| Total | 14,426 | 8,172 | 666 | 893 |

*Estimate - based on average percent of divisional total.

Cumulative Totals
including reported corrections for previous weeks

| | |
|---|---|
| All Causes, All Ages | 14,426 |
| All Causes, Age 65 and over | 8,172 |
| Pneumonia and Influenza, All Ages | 666 |
| All Causes, Under 1 Year of Age | 893 |

UNIVERSITY OF FLORIDA
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## INTERNATIONAL NOTES – QUARANTINE MEASURES

*Immunization Information for International Travel*
*1963-64 edition – Public Health Service Publication No. 384*

The following change should be made in the list of Yellow Fever Vaccination Centers in Section 6:

**Page 77 – Delete**

| | |
|---|---|
| City: | Nashville, Tennessee |
| Center: | Davidson County Department of Public Health |
| Clinic Hours: | Wednesday, by appointment only |
| Fee: | Yes |

**Page 77 – Add**

| | |
|---|---|
| City: | Nashville, Tennessee |
| Center: | Metropolitan Health Department<br>311 – 23rd Avenue, North<br>Tele: 291-5100 |
| Clinic Hours: | Wednesday – 2 p.m. |
| Fee: | Yes |

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CHIEF, COMMUNICABLE DISEASE CENTER — JAMES L. GODDARD, M.D.
CHIEF, EPIDEMIOLOGY BRANCH — A. D. LANGMUIR, M.D.
CHIEF, STATISTICS SECTION — R. E. SERFLING, PH.D.
ASST. CHIEF, STATISTICS SECTION — I. L. SHERMAN, M.S.
CHIEF, SURVEILLANCE SECTION — D. A. HENDERSON, M.D.
ASSISTANT EDITOR, MMWR — PAUL D. STOLLEY, M.D.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASES. SUCH ACCOUNTS SHOULD BE ADDRESSED TO:

THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

SYMBOLS:---DATA NOT AVAILABLE
- QUANTITY ZERO

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